



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGW-4-LED-14L-CA-S-50-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3649
[TESTLAB] TUV SUD America
[TESTDATE] 1/16/2019 1:57:47 PM
[ISSUEDATE] 03/11/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] EGW-4-LED-14L-CA-S-50-80
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14269
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.33 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21115	14460	19471
55	19563	12381	15499
65	16236	9226	10427
75	16738	6587	4125
85	14637	4416	1053

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	5759	5759	5759	5759	5759	5759	5759	5759	5759	5759
2.5	4944	4658	4875	5491	6040	5063	4420	4324	4550	4324
5.0	4532	4435	3890	4212	5989	3941	3976	4237	4368	4237
7.5	4879	4465	4336	3596	5954	3743	3934	4748	5429	4748
10.0	5504	5643	4277	3706	5898	3997	4467	5977	5896	5977
12.5	4921	5077	5059	4162	5856	3832	5928	4678	4013	4678
15.0	4054	4089	5387	4333	5778	3544	5372	3442	3413	3442
17.5	4566	3822	4174	3984	5707	3614	3434	3701	4747	3701
20.0	4981	5049	3758	4033	5616	4507	3118	4954	5363	4954
22.5	3962	4768	3723	5087	5485	6055	3315	4410	3395	4410
25.0	3246	3350	4360	5773	5360	6205	4538	3099	3307	3099
27.5	3140	3155	4532	4839	5225	4409	4739	3218	4473	3218
30.0	3265	3109	3714	3504	5142	3028	3250	4207	4556	4207
32.5	3729	3212	3033	2960	5017	2712	2830	4700	4007	4700
35.0	3737	3543	2913	3145	4902	2569	3193	3800	4084	3800
37.5	3612	3577	2797	3302	4749	2597	3886	3565	3477	3565
40.0	3331	3512	2810	3491	4588	3538	4280	3525	3440	3525
42.5	2933	3119	3033	4001	4441	3927	3603	3065	3452	3065
45.0	3008	2815	2909	3422	4266	2961	3148	3092	3224	3092
47.5	3097	2897	2932	2447	4031	2633	2854	3045	2902	3045
50.0	2827	2868	2811	2177	3761	2617	2438	2970	2394	2970
52.5	2285	2627	2479	2149	3492	2599	2359	2299	2632	2299
55.0	2335	2158	2320	2044	3226	2570	2254	2170	2337	2170
57.5	2159	2154	2164	1932	3001	2452	2199	2217	2183	2217
60.0	1898	2054	2062	1829	2707	2066	1907	1760	2172	1760
62.5	1952	1817	1770	1657	2359	1692	1551	1749	1765	1749
65.0	1504	1814	1549	1430	1990	1452	1514	1729	2028	1729
67.5	1466	1498	1473	1275	1636	1235	1431	1462	1607	1462
70.0	1363	1351	1319	1161	1279	1012	1157	1571	1431	1571
72.5	1072	1319	1113	999	959	791	1048	1266	1450	1266
75.0	1056	1050	944	818	692	637	976	1142	1356	1142
77.5	1169	1059	814	672	477	538	956	1312	1339	1312
80.0	877	990	816	547	320	449	865	949	949	949
82.5	557	646	732	428	216	385	609	665	730	665
85.0	463	439	505	352	147	311	411	503	560	503
87.5	375	355	331	264	100	195	328	444	503	444
90.0	341	313	241	167	65	155	296	398	453	398
92.5	325	299	198	128	57	143	293	373	420	373
95.0	326	295	188	121	61	134	298	356	381	356
97.5	284	282	190	120	62	120	282	330	332	330
100.0	230	239	183	112	58	104	251	294	308	294
102.5	206	206	171	99	53	84	221	279	308	279
105.0	192	189	160	82	45	58	187	261	295	261
107.5	179	173	146	60	38	37	153	231	266	231
110.0	163	154	127	37	31	21	129	201	236	201
112.5	144	136	106	19	25	9	104	179	208	179
115.0	129	120	84	9	19	5	73	158	189	158
117.5	117	108	60	6	13	3	46	136	172	136
120.0	108	95	42	4	8	1	33	107	149	107
122.5	90	75	29	2	5	0	23	74	112	74
125.0	68	54	19	1	2	0	10	57	81	57
127.5	51	39	7	0	1	0	1	42	64	42
130.0	37	31	0	0	0	0	0	32	46	32
132.5	29	22	0	0	0	0	0	15	33	15

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135.0	19	7	0	1	1	0	0	1	16	1
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	5759	5759	5759	5759	5759	5759	5759
2.5	4420	5063	6040	5491	4875	4658	4944
5.0	3976	3941	5989	4212	3890	4435	4532
7.5	3934	3743	5954	3596	4336	4465	4879
10.0	4467	3997	5898	3706	4277	5643	5504
12.5	5928	3832	5856	4162	5059	5077	4921
15.0	5372	3544	5778	4333	5387	4089	4054
17.5	3434	3614	5707	3984	4174	3822	4566
20.0	3118	4507	5616	4033	3758	5049	4981
22.5	3315	6055	5485	5087	3723	4768	3962
25.0	4538	6205	5360	5773	4360	3350	3246
27.5	4739	4409	5225	4839	4532	3155	3140
30.0	3250	3028	5142	3504	3714	3109	3265
32.5	2830	2712	5017	2960	3033	3212	3729
35.0	3193	2569	4902	3145	2913	3543	3737
37.5	3886	2597	4749	3302	2797	3577	3612
40.0	4280	3538	4588	3491	2810	3512	3331
42.5	3603	3927	4441	4001	3033	3119	2933
45.0	3148	2961	4266	3422	2909	2815	3008
47.5	2854	2633	4031	2447	2932	2897	3097
50.0	2438	2617	3761	2177	2811	2868	2827
52.5	2359	2599	3492	2149	2479	2627	2285
55.0	2254	2570	3226	2044	2320	2158	2335
57.5	2199	2452	3001	1932	2164	2154	2159
60.0	1907	2066	2707	1829	2062	2054	1898
62.5	1551	1692	2359	1657	1770	1817	1952
65.0	1514	1452	1990	1430	1549	1814	1504
67.5	1431	1235	1636	1275	1473	1498	1466
70.0	1157	1012	1279	1161	1319	1351	1363
72.5	1048	791	959	999	1113	1319	1072
75.0	976	637	692	818	944	1050	1056
77.5	956	538	477	672	814	1059	1169
80.0	865	449	320	547	816	990	877

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82.5	609	385	216	428	732	646	557
85.0	411	311	147	352	505	439	463
87.5	328	195	100	264	331	355	375
90.0	296	155	65	167	241	313	341
92.5	293	143	57	128	198	299	325
95.0	298	134	61	121	188	295	326
97.5	282	120	62	120	190	282	284
100.0	251	104	58	112	183	239	230
102.5	221	84	53	99	171	206	206
105.0	187	58	45	82	160	189	192
107.5	153	37	38	60	146	173	179
110.0	129	21	31	37	127	154	163
112.5	104	9	25	19	106	136	144
115.0	73	5	19	9	84	120	129
117.5	46	3	13	6	60	108	117
120.0	33	1	8	4	42	95	108
122.5	23	0	5	2	29	75	90
125.0	10	0	2	1	19	54	68
127.5	1	0	1	0	7	39	51
130.0	0	0	0	0	0	31	37
132.5	0	0	0	0	0	22	29
135.0	0	0	1	1	0	7	19
137.5	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1724.23	N.A.	12.10
0-30	3731.28	N.A.	26.10
0-40	5964.66	N.A.	41.80
0-60	10620.49	N.A.	74.40
0-80	13281.16	N.A.	93.10
0-90	13754.47	N.A.	96.40
10-90	13309.11	N.A.	93.30
20-40	4240.42	N.A.	29.70
20-50	6738.41	N.A.	47.20
40-70	6281.99	N.A.	44.00
60-80	2660.67	N.A.	18.60
70-80	1034.52	N.A.	7.30
80-90	473.31	N.A.	3.30
90-110	404.34	N.A.	2.80
90-120	484.02	N.A.	3.40
90-130	510.58	N.A.	3.60
90-150	514.31	N.A.	3.60
90-180	514.31	N.A.	3.60
110-180	109.97	N.A.	0.80
0-180	14268.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	445.36
10-20	1278.87
20-30	2007.05
30-40	2233.38
40-50	2497.99
50-60	2157.85
60-70	1626.15
70-80	1034.51
80-90	473.31
90-100	243.35
100-110	160.99
110-120	79.68
120-130	26.57
130-140	3.73
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

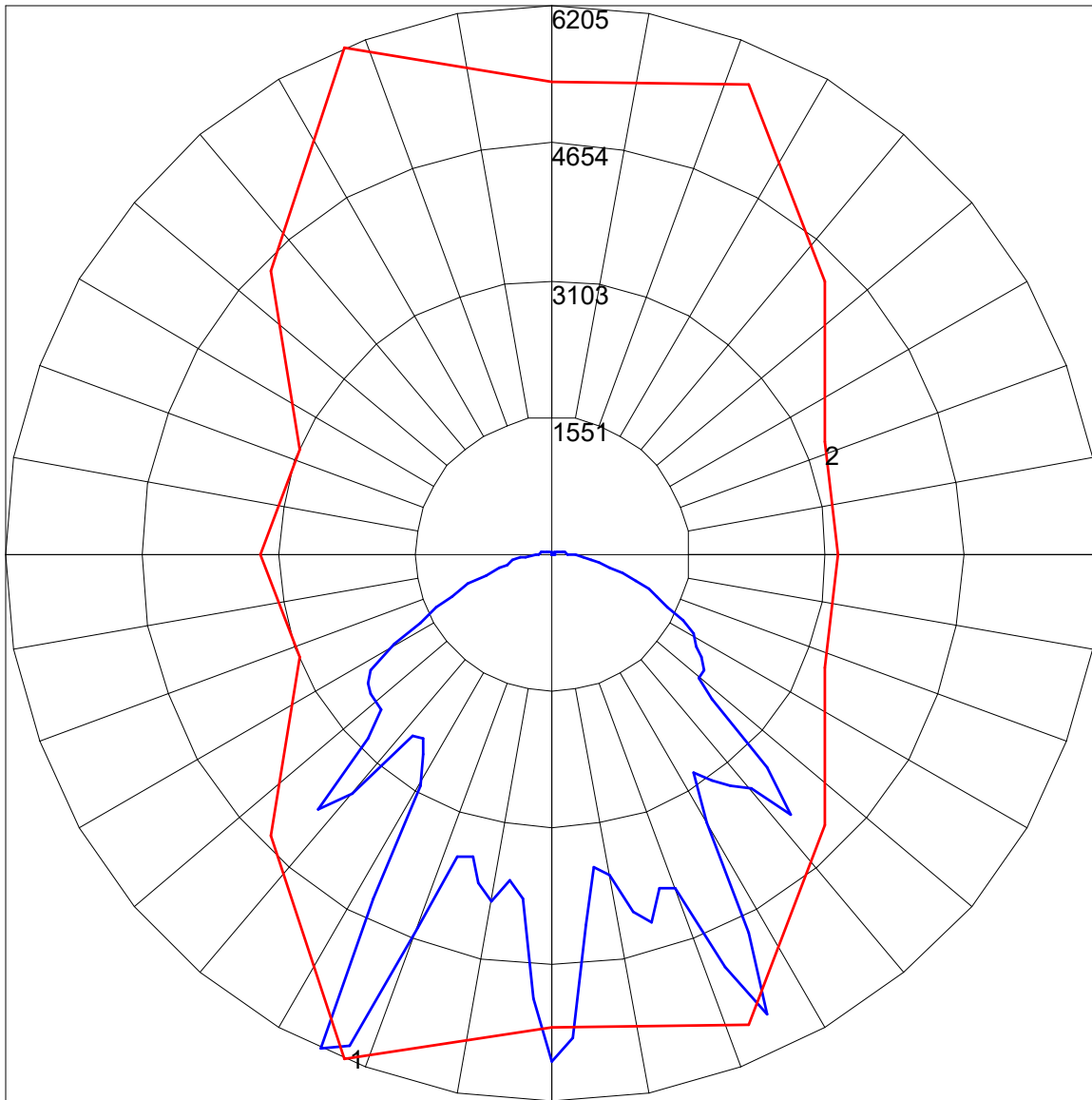
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	98	94	104	100	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	55	50	59	54	49	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	26	51	38	31	25	37	30	25	36	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 6205 Located At Horizontal Angle = 112.5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)